Developer Essentials

Duration: 5 Days   Course Code: GKESSA1

Overview:

Nederlands:
De training 'Developer Essentials' biedt een uitgebreide reis door de essentiële vaardigheden die nodig zijn voor een succesvolle carrière als ontwikkelaar. Deze training is zorgvuldig samengesteld om een gebalanceerde combinatie van zelfstudie en interactieve klassikale sessies te bieden. Het curriculum is opgedeeld in verschillende hoofdstukken om een gestructureerde en diepgaande leerervaring te garanderen.
De training begint met een boeiende online klassikale introductie, zodat deelnemers samen aan hun leerproces kunnen beginnen. De training culmineert in een online interactie waarbij deelnemers de mogelijkheid hebben om in gesprek te gaan met de docent en medecursisten.
Deze training is ontwikkeld als onderdeel van het ESSA-consortium onder auspiciën van Digital Europe en sluit aan bij het doel van het Erasmus+ programma om opleidingen te creëren die precies aansluiten bij de behoeften van moderne organisaties in de softwareservicesector.

LET OP: Deze training betreft een pilot training. Dat betekent dat we een eerste versie van deze training willen uittesten in de markt. De toegang voor deze pilot training is daarom GRATIS. Het enige dat we van je terugvragen als je de training bijwoont, is een goede feedback op de training: wat is goed, wat kan beter. Wel geldt er een boeteclausule voor vroegtijdig annuleren van de training: 200 euro per persoon.
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English:
The 'Developer Essentials' training offers a comprehensive exploration of the fundamental skills necessary for a successful career in software development. Meticulously curated, this course strikes a balance between self-paced learning and interactive online sessions. The curriculum is divided into distinct chapters, providing a structured and in-depth learning experience.
Developed as part of the ESSA consortium under the auspices of Digital Europe, this training is in line with the Erasmus+ program's goal of creating training courses that precisely meet the needs of modern organizations in the software services sector.
PLEASE NOTE: This training is a pilot training. This means that we want to test a first version of this training in the market. Therefore, admission for this pilot training is FREE. The only thing we ask from you in return if you attend the training is good feedback on the training: what is good, what could be better. However, there is a penalty clause for early cancellation of the training: 200 euros per person.

Target Audience:

The 'Developer Essentials' training is designed for individuals aspiring to build a strong foundation in software development or enhance their existing skills. This comprehensive course is particularly well-suited for:
Entry-Level Developers: Individuals with little to no prior experience in programming or web development who seek a structured and immersive introduction to the field.

IT Enthusiasts and Career Switchers: Those looking to transition into a career in software development, even if they come from non-technical backgrounds.

Junior Developers: Developers at the early stages of their career who want to solidify their foundational knowledge and gain exposure to advanced topics like software architecture, agile methodologies, and version control.

Self-Taught Developers: Individuals who have acquired programming skills through self-study and want to formalize their knowledge, filling in any gaps in their understanding.

Professionals Seeking Career Advancement: Software professionals aiming to broaden their skill set, delve into advanced concepts, and stay current with industry best practices.

Graduates and Students in Computer Science: Graduates or students in computer science programs looking to supplement their academic education with practical, industry-relevant skills.

International Participants in ESSA Consortium Programs: Individuals participating in ESSA consortium programs under the Digital Europe umbrella, aligning with the Erasmus+ initiative. This course caters to those seeking training that directly addresses the needs of modern organizations in the software services sector.

Objectives:

- Upon completion of the 'Developer Essentials' training, participants will:

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- **Collaborative Development:**

- Master Git and GitHub for version control and collaborative coding.

- Effectively collaborate with peers in a distributed development

- **Technical Proficiency:**

- Demonstrate a strong foundation in programming, web development, and database management.

- Apply software architecture and design principles to create robust solutions.

- **Agile Competence:**

- Understand agile development methodologies and their practical application.

- Implement agile and test-driven development best practices for efficient software delivery.

environment.

- **Problem-solving and Debugging:**

- Acquire practical problem-solving skills in programming.

- Develop proficiency in debugging to enhance code quality.

- **Project Management Awareness:**

- Gain awareness of software development life cycles and project management methodologies.

Prerequisites:

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Follow-on-Courses:

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Content:

Programming Foundation:

- Programming Fundamentals Literacy: Gain a profound understanding of programming basics, encompassing algorithms, data types, and control structures.
- Introduction/Onboarding: Commence the course with an interactive online classroom introduction, allowing participants to familiarize themselves with the learning environment.
- Programming Fundamentals: Develop practical programming skills, including problem-solving and debugging.
- 2.

Web Basics:

- Web Fundamentals Literacy: Grasp the foundational principles of web development, emphasizing HTML, CSS, and JavaScript.
- Web Fundamentals:* Delve deeper into web development with HTML Forms, JavaScript for form validation, and asynchronous programming.
- Introduction to Programming Using HTML and CSS:* Learn the essentials of programming using HTML and CSS.
- HTML Forms Lab: Form a Story, Handlebars Lab: Musicon:* Apply acquired concepts in practical labs to enhance understanding.
- 3.

Database and SQL:

- Database Fundamentals Literacy: Understand the basics of databases.
- Database Fundamentals: Learn about database design and management.
- SQL Manipulation: Explore SQL for data manipulation.
- Query Multiple Tables with SQL, SQL Subqueries: Dive into more complex SQL queries.
- Working with MySQL 8.0 Sandbox: Gain hands-on experience with the MySQL 8.0 Sandbox.
- 4.

Software Architecture, Design, Development, and SDLC:

- Software Design and Development Fundamentals Literacy: Grasp the core principles of software architecture, design, and development.
- Agile Development Awareness: Develop an awareness of agile development methodologies.
- Agile Foundations: Fundamentals, Agile Software Development
- Agile Development Life Cycle: Learn the basics and life cycle of agile development.
- Agile ; TDD Best Practices for APIs: Test-driven Development Strategy, Microservices Architecture.
- Explore advanced topics like test-driven development and microservices architecture.
- 5.

Git:

Git ; GitHub: Introduction: Acquaint yourself with Git as a distributed version control system and learn collaborative development on GitHub.

Additional Information:

This course employs a blended learning approach, combining self-study with interactive online classroom sessions. Participants will engage in hands-on labs, collaborative projects, and practical exercises, ensuring a holistic and immersive learning experience. The training concludes with an online interaction, providing participants the opportunity to reinforce their knowledge through discussions with the instructor and fellow participants. Throughout the training, participants will build a portfolio of practical skills, preparing them for real-world software development challenges.

The training concludes with an interactive classroom session where participants have the opportunity to ask questions, have discussions and consolidate their knowledge under the guidance of the instructor. This approach provides a balanced and effective learning experience where participants not only acquire technical skills, but also develop the ability to thrive in various development scenarios.

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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